

## TECHNICAL DATA

# “SUNSET” Series

## 1. Technical Features

UNI EN 14411 - Annex L –Dry-pressed ceramic tiles - GROUP BIII GL

	Technical features	Norms	Required standards	Average
<b>REGULARITY AND QUALITY SURFACE CHARACTERISTICS</b>	LENGTH AND WIDTH (The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size (W))	UNI EN ISO 10545-2	± 0,6 %	IN ACCORDANCE
	THICKNESS		± 5 %	IN ACCORDANCE
	STRAIGHTNESS OF SIDES		± 0,3 %	IN ACCORDANCE
	RECTANGULARITY		± 0,5 %	IN ACCORDANCE
	SURFACE FLATNESS		+ 0,5 % , -0,3% (Curvatura centro e spigolo) ± 0,5 % (svergolamento)	IN ACCORDANCE
	SURFACE QUALITY		A minimum of 95% of tiles shall be free from visible defects that would impair the appearance of a major area of tiles	IN ACCORDANCE
<b>PHISICAL CHARACTERISTICS</b>	WATER ABSORPTION	UNI EN ISO 10545-3	10 % < Eb (<20 %)	IN ACCORDANCE
	BREAKING STRENGTH (S) – MODULUS OF RUPTURE (R)	UNI EN ISO 10545-4	S > 600 N R > 15 N/mm <sup>2</sup>	IN ACCORDANCE
	CRAZING RESISTANCE	UNI EN ISO 10545-11	REQUIRED	IN ACCORDANCE
<b>CHEMICAL CHARACTERISTICS</b>	RESISTANCE TO HOUSEHOLD CHEMICALS AND SWIMMING POOL SALTS	UNI EN ISO 10545-13	Class GB min.	RESISTANT
	RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS		Manufacturer to state classification	RESISTANT
	RESISTANCE TO STAINING	UNI EN ISO 10545-14	Minimum Class 3	IN ACCORDANCE

## 2. Sizes, Finishings:

**2.1 Sizes:** 32,5x65

**2.2 Colours:** 15 (Hydra, Fajal, Belize, Mahè, Moorea, Raja, Tinos, Nika, Kos, Raja Dark, Tinos Dark, Nika Dark, Mahè Dark, Kos Dark, Togian Dark)

**2.2 Finishings:** Rectified

## 3. Process features

The SUNSET series is realized in porcelain stoneware by dry pressing of a mix of spray-dried bodies obtained from precious natural raw materials. The obtained substrate is later silk-screen printed (decorated) and fired at over

1100°C, temperature needed to reach the sintering necessary to make the product frost-proof, non-absorbing and resistant to chemical attacks.

#### 4. In accordance with standards



SUNSET is a UNI/Keymark certified material, ensuring compliance, as far as the first choice is concerned, with the requirements specified in the international standards UNI EN 14411 appendix G and ISO 13006, for the surface chemical and physical features; the compliance is extended to all commercial choices for the safety features connected with the CE marking. SUNSET is also CCC certified.

The Quality management system - implemented by the company and certified according to the standard UNI EN ISO 9001:2008 - ensures a steady compliance.



#### 5. Environmental Certification



##### 5.1 ANAB-ICEA

**Naxos**, for SUNSET, has successfully gained the ANAB-ICEA product labeling which, according to the requirements of the EN ISO 14024 norm, ensures that the products bearing the ANAB mark:

- are obtained from raw materials mined with a reduced environmental impact
- do not contain substances harmful for man and the environment
- are obtained from a productive process which is strictly checked and with a reduced environmental impact
- do not release polluting substances in the surrounding environment.

The ANAB certification can aid reaching the requirements needed to obtain the benefit granted by the new Italian HOME PLAN (at least in regions relating the cubage benefits with the use of bio-building materials and techniques).

##### 5.2 LEED Rating System

SUNSET guarantees the following LEED credits:



**Credit SS 7.1/7.2 - Heat Island Effect:** SUNSET does not increase the temperature of city areas compared to country areas (No heat island effect), as the solar reflectance index SRI is  $\geq 29$ . SUNSET is thus particularly suitable for outdoor roofed and non-roofed installations.

**Credit EA 1 - Optimize energy performance:** heat conductivity  $\lambda$  of SUNSET ranges between 1 and 1.3 Watt/(m·K). Therefore SUNSET is provided of very good insulating performance.

**Credit EQ 4.2 - VOC content:** SUNSET does not emit VOC (Volatile Organic Compounds), as certified by qualified external laboratories.

**Credit MR 1.2 - Building re-use:** SUNSET can contribute to this credit by coating existing floors and walls, renovating surfaces and structures avoiding their demolition and rebuilding.

**Credit MR 2.1-2.2 - Management of building wastes:** SUNSET can contribute to this credit, as all ceramic tiles can be totally considered as recovered materials to be used as aggregates for different filling operations (substrates, embankments, etc.).

**Credit MR 5.1-5.2 – Regional materials:** 65% of the materials used to produce SUNSET comes from quarries located within 500 miles from its production headquarters.

**Credits ID 1.1-1.4 - Innovation in Design:**

- SUNSET is ANAB/ICEA certified and this is an innovative performance as for the environmental benefits offered by the product.

## 6. Digital ink system



All productive factories of the Fincibec group are equipped with the innovative digital decoration technology. The digital decoration technology enables to obtain top definition graphic effects able to perfectly reproduce the look of natural elements.

The series SUNSET, too, uses the digital decoration technology.

## TECHNICAL DATA

# “SUNSET” Porcelain floors

## 1. Technical Features

UNI EN 14411 - Annex G –Dry-pressed ceramic tiles with low water absorption - GROUP B1aGL

	Technical features	Norms	Required standards	Average
REGULARITY AND QUALITY SURFACE CHARACTERISTICS	LENGTH AND WIDTH (The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size (W))	UNI EN ISO 10545-2	± 0,6 %	IN ACCORDANCE
	THICKNESS		± 5 %	IN ACCORDANCE
	STRAIGHTNESS OF SIDES		± 0,5 %	IN ACCORDANCE
	RECTANGULARITY		± 0,6 %	IN ACCORDANCE
	SURFACE FLATNESS		± 0,5 %	IN ACCORDANCE
	SURFACE QUALITY		A minimum of 95% of tiles shall be free from visible defects that would impair the appearance of a major area of tiles	IN ACCORDANCE
PHISICAL CHARACTERISTICS	WATER ABSORPTION	UNI EN ISO 10545-3	Eb ≤ 0,5 %	IN ACCORDANCE
	BREAKING STRENGTH (S) – MODULUS OF RUPTURE (R)	UNI EN ISO 10545-4	S > 1300 N R > 35 N/mm <sup>2</sup>	IN ACCORDANCE
	CRAZING RESISTANCE	UNI EN ISO 10545-11	REQUIRED	IN ACCORDANCE
	RESISTANCE TO FROST	UNI EN ISO 10545-12	REQUIRED	IN ACCORDANCE
CHEMICAL CHARACTERISTICS	RESISTANCE TO HOUSEHOLD CHEMICALS AND SWIMMING POOL SALTS	UNI EN ISO 10545-13	Class GB min.	RESISTANT
	RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS		Manufacturer to state classification	RESISTANT
	RESISTANCE TO STAINING	UNI EN ISO 10545-14	Minimum Class 3	IN ACCORDANCE

## 2. Sizes, Finishings:

2.1 Sizes: 50x50 – 25x50 – 32,5x32,5

2.2 Colours: 11 (Raja, Tinos, Nika, Nika Dark, Mahè Dark, Kos, Togian Dark, Sunset Dark, Sunset Brown, Sunset Sand, Sunset Ivory)

2.2 Finishings: Rectified

## 3. Process features

The SUNSET series is realized in porcelain stoneware by dry pressing of a mix of spray-dried bodies obtained from precious natural raw materials. The obtained substrate is later silk-screen printed (decorated) and fired at over 1200°C, temperature needed to reach the sintering necessary to make the product frost-proof, non-absorbing and resistant to chemical attacks.

#### 4. In accordance with standards



SUNSET is a UNI/Keymark certified material, ensuring compliance, as far as the first choice is concerned, with the requirements specified in the international standards UNI EN 14411 appendix G and ISO 13006, for the surface chemical and physical features; the compliance is extended to all commercial choices for the safety features connected with the CE marking. SUNSET is also CCC certified.

The Quality management system - implemented by the company and certified according to the standard UNI EN ISO 9001:2008 - ensures a steady compliance.



#### 5. Environmental Certification



##### 5.2 ANAB-ICEA

**Naxos**, for SUNSET, has successfully gained the ANAB-ICEA product labeling which, according to the requirements of the EN ISO 14024 norm, ensures that the products bearing the ANAB mark:

- are obtained from raw materials mined with a reduced environmental impact
- do not contain substances harmful for man and the environment
- are obtained from a productive process which is strictly checked and with a reduced environmental impact
- do not release polluting substances in the surrounding environment.

The ANAB certification can aid reaching the requirements needed to obtain the benefit granted by the new Italian HOME PLAN (at least in regions relating the cubage benefits with the use of bio-building materials and techniques).

##### 5.2 LEED Rating System

SUNSET guarantees the following LEED credits:



**Credit SS 7.1/7.2 - Heat Island Effect:** SUNSET does not increase the temperature of city areas compared to

country areas (No heat island effect), as the solar reflectance index SRI is  $\geq 29$ . SUNSET is thus particularly suitable for outdoor roofed and non-roofed installations.

**Credit EA 1 - Optimize energy performance:** heat conductivity  $\lambda$  of SUNSET ranges between 1 and 1.3 Watt/(m·K). Therefore SUNSET is provided of very good insulating performance.

**Credit EQ 4.2 - VOC content:** SUNSET does not emit VOC (Volatile Organic Compounds), as certified by qualified external laboratories.

**Credit MR 1.2 - Building re-use:** SUNSET can contribute to this credit by coating existing floors and walls, renovating surfaces and structures avoiding their demolition and rebuilding.

**Credit MR 2.1-2.2 - Management of building wastes:** SUNSET can contribute to this credit, as all ceramic tiles can be totally considered as recovered materials to be used as aggregates for different filling operations (substrates, embankments, etc.).

**Credit MR 5.1-5.2 – Regional materials:** 65% of the materials used to produce SUNSET comes from quarries located within 500 miles from its production headquarters.

**Credits ID 1.1-1.4 - Innovation in Design :**

- SUNSET is ANAB/ICEA certified and this is an innovative performance as for the environmental benefits offered by the product.